

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1874-1875.

WITH THE COURSES OF STUDY.



EASTON, PA.

1875.

COLLEGE CALENDAR.

1874.

September 4, Thursday.—First term began.

December 24, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1875.

January 7, Thursday.—Second term began.

January 28, Thursday.—Day of Prayer for Colleges.

February 22, Monday.—Anniversary of the Washington Literary Society.

March 23, Tuesday.—Junior Prize Speaking.

March 24, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 8, Thursday.—Third term begins.

June 14—16.—Final Examination of the Senior Class.

June 24—28.—Examination of the lower classes.

June 27, Sunday, A. M.—Baccalaureate Sermon.

June 27, Sunday, P. M.—Sermon before the Brainerd Missionary Society.

June 28, Monday.—Senior Class Day and Concert.

June 29, Tuesday, A. M.—Reunion Meetings of the Literary Societies.

June 29, Tuesday, P. M.—Meeting of the Alumni Association.

June 29, Tuesday Evening.—Oration before the Literary Societies.

June 30, Wednesday.—Commencement Exercises.

July 1, Thursday.—Examinations for Admission.

VACATION OF NINE WEEKS.

August 31—September 1, Tuesday and Wednesday.—Examinations for admission

September 2, Thursday.—First term begins.

November 26, Friday.—Anniversary of Franklin Literary Society.

December 22, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1876.

January 6, Thursday.—Second term begins.

March 22, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

HON. JAMES POLLOCK, LL.D., PRESIDENT,
REV. S. M. ANDREWS, D.D.,
REV. DAVID J. WALLER,
REV. ROBERT HAMILL, D.D.,
WILLIAM C. LAWSON,
MATTHEW HALE JONES,
REV. SAMUEL F. COLT,
REV. AARON H. HAND, D.D.,
REV. WILLIAM C. CATTELL, D.D.,
HON. JAMES ROSS SNOWDEN, LL.D.,
A. PARDEE,
ALFRED MARTIEN,
REV. J. H. MASON KNOX, D.D.,
JOHN F. MCCOY,
BARTON H. JENKS,
THOMAS BEAVER,
JOHN WELLES HOLLENBACK,
WILLIAM DORRIS,
MORRIS PATTERSON,
JOHN CURWEN, M.D.,
WILLIAM ADAMSON,
THOMAS DICKSON,
THOMAS L. McKEEN,
GEN. ROBERT PATTERSON,
BENJAMIN G. CLARKE,
C. DELANO WOOD,

PHILADELPHIA.
DOYLESTOWN.
BLOOMSBURG.
BOALSBURG.
MILTON.
EASTON.
LAPORTE.
PALISADES, N. Y.
EASTON.
PHILADELPHIA.
HAZLETON.
PHILADELPHIA.
BRISTOL.
NEW YORK CITY.
PHILADELPHIA.
DANVILLE.
WILKES BARRE.
HUNTINGDON.
PHILADELPHIA.
HARRISBURG.
PHILADELPHIA.
SCRANTON.
EASTON.
PHILADELPHIA.
NEW YORK CITY.
BROOKLYN, N. Y.

SAMUEL L. FISLER, SECRETARY AND TREASURER,

EASTON, PA.

MEMBERS OF THE FACULTY.

REV. WILLIAM C. CATTELL, D.D., PRESIDENT,
AND PROFESSOR OF MENTAL AND MORAL PHILOSOPHY.

TRAILL GREEN, M.D., LL.D.,
PROFESSOR OF GENERAL CHEMISTRY.

FRANCIS ANDREW MARCH, LL.D.,
PROFESSOR OF THE ENGLISH LANGUAGE AND COMPARATIVE PHILOLOGY.

REV. JOHN LEAMAN, A.M., M.D.,
PROFESSOR OF HUMAN PHYSIOLOGY AND ANATOMY.

REV. LYMAN COLEMAN, D.D.,
PROFESSOR OF LATIN AND OF BIBLICAL AND PHYSICAL GEOGRAPHY.

REV. THOMAS C. PORTER, D.D.,
PROFESSOR OF BOTANY AND ZOOLOGY.
(Jessie Chamberlain Professorship of Botany.)

REV. AUGUSTUS A. BLOOMBERGH, PH. D.,
PROFESSOR OF MODERN LANGUAGES.

REV. ROBERT B. YOUNGMAN, A.M.,
PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

FREDERICK PRIME, JR., A.M.,
PROFESSOR OF METALLURGY AND MINERALOGY.

E. HUBBARD BARLOW, A.M.,
PROFESSOR OF RHETORIC AND ELOCUTION, AND OF PHYSICAL CULTURE.

ROSSITER W. RAYMOND, PH. D.,
LECTURER ON MINING GEOLOGY.

REV. SELDEN JENNINGS COFFIN, A.M.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

JAMES W. MOORE, A.M., M.D.,
PROFESSOR OF MECHANICS AND EXPERIMENTAL PHILOSOPHY.

JUSTUS MITCHELL SILLIMAN, M.E.,
MARKLE PROFESSOR OF MINING ENGINEERING AND GRAPHICS.

JOSEPH G. FOX, C.E.,
PROFESSOR OF CIVIL AND TOPOGRAPHICAL ENGINEERING.

THOMAS M. DROWN, M.D.,
ADAMSON PROFESSOR OF ANALYTICAL CHEMISTRY.

REV. ADDISON BALLARD, D.D.,
DOUGLASS PROFESSOR OF CHRISTIAN GREEK AND LATIN.

ARTHUR LATHAM BAKER, C.E.,
ADJUNCT PROFESSOR OF CIVIL ENGINEERING.

JOSEPH JOHNSTON HARDY, A.M.,
ADJUNCT PROFESSOR OF MATHEMATICS.

DAVID BENNETT KING, A.M.,
ADJUNCT PROFESSOR OF LATIN.

WM. BAXTER OWEN, A.M.,
ADJUNCT PROFESSOR OF GREEK.

JOHN MEIGS, A.M.,
TUTOR IN LATIN AND GREEK.

WILLIAM S. SWEENEY, A.B.,
TUTOR IN CHEMISTRY.

JOHN G. DIEFENDERFER, C.E.,
TUTOR IN MATHEMATICS.

WILLIAM HENRY SCHUYLER, A.B.,
TUTOR IN ANCIENT LANGUAGES.

JOSEPH R. SHIMER, M.E.,
ASSISTANT IN METALLURGY.

EDWARD HART, B.S.,
ASSISTANT IN CHEMISTRY.

WM. H. WEAVER, Janitor.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

Term Expires 1875.

ASHBEL WELSH,
SELDEN T. SCRANTON,
JOHN LEISENRING,
HENRY K. SMITH,
W. DWIGHT BELL,
HENRY McCORMICK,

LAMBERTVILLE, N. J.
OXFORD, N. J.
MAUCH CHUNK.
CHESTNUT HILL.
PHILADELPHIA.
HARRISBURG.

Term Expires 1876.

STRICKLAND KNEASS,
P. W. SHEAFER,
FRANK CARTER,
DAVID THOMAS,
ALFRED HAND,
CHARLES PARRISH,

PHILADELPHIA.
POTTSVILLE.
MAHANOX CITY.
CATASAUQUA.
SCRANTON.
WILKES BARRE.

Term Expires 1877.

JOHN W. GARRETT,
A. A. DOUGLAS,
JOHN WANAMAKER,
H. C. FAHNESTOCK,
HENRY J. WILLIAMS,
G. DAWSON COLEMAN,

BALTIMORE, MD.
MAUCH CHUNK.
PHILADELPHIA.
NEW YORK CITY.
CHESTNUT HILL.
LEBANON.

COMMITTEE OF THE ALUMNI.

HON. WM. S. KIRKPATRICK, A. M., President of the Alumni Association,
Easton, Class of 1863.

SAMUEL W. BARBER, A. M., St. Louis, Mo., Class of 1840.

JOHN J. H. LOVE, A. M., M. D., Montclair, N. J., Class of 1851.

REV. OSCAR J. HARDIN, A. M., Tripoli, Syria, Class of 1868.

REV. WM. W. HEBERTON, A. M., Elkton, Md., Class of 1865.

STUDENTS.

REFERENCES.

South College, S.—East Hall, E.—Blair Hall, B.—Newkirk Hall, N.—Martien Hall, M.—Powell Hall, P.—McKeen Hall, McK.—Special Course, †

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
Clay Kemble, B.S., Philadelphia.	Lafayette, 1874. Spring Garden St.	Civil Engineering.
Thomas Clemence Moffat, A.B., Wheaton, Ill.	Wheaton Coll., 1873. 127 Cattell St.	Philology.
Israel Platt Pardee, M.E., Hazleton.	Lafayette, 1874. Spring Garden St.	Chemistry.
Ethan Allen Weaver, C.E., Easton.	Lafayette, 1874. 6 Newkirk Hall.	Chemistry.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Henry Aller Aller,	<i>Mount Pleasant, N. J.,</i>	339 Bushkill.
Henry Brinton Buckwalter,	<i>West Chester,</i>	13 S.
Henry Scarborough Carey,	<i>Taylorsville,</i>	24 S.
Robert Henderson Carothers,	<i>Olivet,</i>	34 S.
Thomas Craig,	<i>Pittston,</i>	58 S.
Jesse Van Auken Craighead,	<i>New York City,</i>	10 M.
John William Creveling,	<i>Bloomsbury, N. J.,</i>	11 McK.
William Walter Dale,	<i>Franklin,</i>	27 McK.
Andrew Fine Derr,	<i>Wilkes Barre,</i>	9 McK.
Montgomery Evans,	<i>Limerick Station,</i>	23 McK.

SENIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Samuel Wilson Fleming,	<i>Harrisburg,</i>	12 M.
William Henry Harrison,	<i>Easton,</i>	Lafayette Park.
John Roberts Henderson,	<i>Middlebrook, Md.,</i>	33 S.
Willis Stanley Hetrick,	<i>Easton,</i>	18 McK.
James Henry Hicks,	<i>Wyoming,</i>	49 S.
Zacharias Christman Hoch,	<i>Kutztown,</i>	11 N.
Joseph Ellis Hoffman,	<i>Danville,</i>	35 S.
Herbert Hallet Jackson,	<i>Brooklyn, N. Y.,</i>	34 S.
Nicholas Henry Larzelere,	<i>Whitehallville,</i>	23 McK.
Charles Henry Lee,	<i>Saluda, Ind.,</i>	24 S.
John Morgan Lewis,	<i>Pittston,</i>	59 S.
Arthur Millington McComb,	<i>Dayton, Ohio,</i>	48 S.
David Williamson Nevin,	<i>Shippensburg,</i>	245 Bushkill St.
Hamilton H. Pollock,	<i>Callensburg,</i>	10 N.
Albert Andrews Richards,	<i>Buck Valley,</i>	13 B.
Richard Anderson Roberts,	<i>New York City,</i>	48 S.
George Manville Robison,	<i>East Springfield,</i>	59 S.
Joseph Whitfield Scroggs,	<i>Greenfield, Mo.,</i>	2 McK.
Samuel Wilson Shadle,	<i>Reedville,</i>	35 S.
William Clayton Shipman,	<i>Easton,</i>	13 S.
Edmund Dell Smith,	<i>Pottsville,</i>	9 McK.
Andrew Jackson Sullivan,	<i>Philadelphia,</i>	37 S.
Welling Evan Thomas,	<i>Stevensville,</i>	33 S.
James Wilson Walk,	<i>Philadelphia,</i>	19 N.
Lewis Burd Walker,	<i>Pottsville,</i>	6 M.

SENIORS.....35.

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Isaac Oakford Acton,	<i>Salem, N. J.,</i>	20 McK.
Fernando de Albuquerque,	<i>San Paulo, Brazil,</i>	238 Bushkill St.
Joseph Kirkwood Alexander,	<i>Moundsville, W. Va.,</i>	9 P.
Milton Rothrock Alexander,	<i>Lewistown,</i>	47 S.
Clarence Newton Andrews,	<i>Easton,</i>	340 Spring Garden St.
Joseph Howell Andrews,	<i>Phillipsburg, N. J.,</i>	43 S.
George Albert Angle,	<i>Roxbury, N. J.,</i>	9 M.
James Bacon,	<i>Osceola,</i>	4 McK.
Isaac Barber,	<i>Phillipsburg, N. J.,</i>	1 P.
Allen Peter Berlin,	<i>Cherryville,</i>	8 McK.
Samuel Austin Besson,	<i>Everettstown, N. J.,</i>	24 N.
Charles Welles Bixby,	<i>Wyalusing,</i>	26 McK.
Maynard Bixby,	<i>Wyalusing,</i>	26 McK.
Silas Belden Brown,	<i>May's Landing, N. J.,</i>	5 McK.
John Alfred Buchanan,	<i>Honeybrook,</i>	13 P.
Richard Edward Chism,	<i>Easton,</i>	Porter's Block.
John Waugh Clendenin,	<i>Mechanicsburg,</i>	11 M.
Wilking Britton Cooley,	<i>Easton,</i>	206 Northampton St.
John Alexander Covode,	<i>Chambersburg,</i>	11 M.
William Franklin Dannehower,	<i>Tylersport,</i>	22 McK.
Harry Emmons,	<i>Wilmington, Del.,</i>	2 McK.
William Thomas Fee,	<i>Franklin,</i>	28 McK.
Luther Melick Fine, †	<i>Musconetcong, N. J.,</i>	12 S.
John Slough Freeman,	<i>Centre Point,</i>	22 S.
John Bennett Fuller,	<i>Montoursville,</i>	36 S.
John Torrey Fuller,	<i>Wilkes Barre,</i>	10 McK.
James Gayley,	<i>Colora, Md.,</i>	5 McK.
Jacob Bruner Graham,	<i>Honeybrook,</i>	13 P.
Henry Lewis Griffis,	<i>Montrose,</i>	N. 2d St.
Frank Graham Harris,	<i>Glen Hope,</i>	19 McK.
Thomas Abraham Horn Hay,	<i>Easton,</i>	341 Northampton St.
John King Hays, Jr.,	<i>Williamsport,</i>	21 S.
Alfred Heebner,	<i>Port Carbon,</i>	8 P.
John Burke Hendry,	<i>Easton,</i>	1 E.
Charles Christopher Henschen, Jr.,	<i>Baltimore, Md.,</i>	22 N.
Everett Newell Huggins, †	<i>New York City,</i>	32 S.
Forrest Hulings,	<i>Emlenton,</i>	14 McK.
Willis Martin Hunt,	<i>Clarksville, N. J.,</i>	10 P.
John Coleman Irwin,	<i>Indiana,</i>	9 M.

JUNIORS—CONTINUED.

Matthew Hale Jones, Jr.,	<i>Easton,</i>	87 Centre Square.
Jackson Perry Keency,	<i>Towanda,</i>	44 S.
John Franklin Keller, †	<i>Lancaster,</i>	32 S.
Alexander Lowry Kinhead,	<i>Hollidaysburg,</i>	46 S.
Henry Reichenbach Kraber, †	<i>York,</i>	243 Bushkill St.
Edwin Houston Lamberton,	<i>Franklin,</i>	27 McK.
Asa Leard,	<i>Cowansville,</i>	14 M.
Thomas William Leard,	<i>Cowansville,</i>	14 M.
Arthur Coffin Logan,	<i>Scranton,</i>	11 P.
Harry Vannuys Logan,	<i>Scranton,</i>	11 P.
Grover Stout Lowe,	<i>Somerville, N. J.,</i>	9 N.
Alvin Theodore Ludwig,	<i>Allentown,</i>	29 B.
John Moore McCahan,	<i>Burkeville, Va.,</i>	14 B.
Oliver Campbell McClure,	<i>Thurlow,</i>	21 B.
William Henry McCurdy,	<i>Slate Hill,</i>	45 S.
William Cummins McKnight, †	<i>Chambersburg,</i>	45 S.
Abram McMurtrie,	<i>Belvidere, N. J.,</i>	20 McK.
Henry Stephen Magraw,	<i>Colora, Md.,</i>	—
John Stockton Marquis,	<i>Dunningsville,</i>	20 S. C.
William Andrew May,	<i>Williamsport,</i>	19 McK.
Oliver Hoffman Melcher,	<i>Kintnersville,</i>	20 B.
Henry Daniel Michler,	<i>Easton,</i>	Lafayette Park.
James Monahan,	<i>Sedalia, Mo.,</i>	17 N.
Samuel Black Neilson,	<i>New Bloomfield,</i>	23 N.
Clearfield Park,	<i>Bloomsbury, N. J.,</i>	24 McK.
Edward Peacock,	<i>Lancaster,</i>	14 P.
William Lewis Plack, †	<i>Altoona,</i>	1 McK.
John Porter,	<i>Easton,</i>	Prof. Porter's.
Henry Emery Raesly,	<i>Mount Bethel,</i>	14 S.
George Montgomery Rea, †	<i>Hackettstown, N. J.,</i>	243 Bushkill St.
Russell B. Rice,	<i>Perrysville, Ohio,</i>	12 N.
James Reese Schick, †	<i>Easton,</i>	43 N. 4th St.
Nicholas Irwin Scott, †	<i>Twenty-Mile Stand, Ohio,</i>	6 McK.
John Jay Serfass, †	<i>Easton,</i>	465 Northampton St.
Wyn Reeves Sewell,	<i>Allegheny,</i>	8 M.
Cyrus Lee Stevens,	<i>Stevensville,</i>	23 E.
William Clark Stull,	<i>Milford, N. J.,</i>	22 S.
Israel Henry Supplee, †	<i>West Haverford,</i>	12 McK.
John Bascom Taylor,	<i>Wyalusing,</i>	24 McK.
Victor Piollet Wierman,	<i>Harrisburg,</i>	10 McK.

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Charles Baeder Adamson,†	<i>Philadelphia,</i>	12 P.
John Bell Alexander,	<i>Lewistown,</i>	47 S.
William John Alexander,	<i>East Liberty,</i>	10 S.
Walter Lowrie Alexander,	<i>Moundsville, W. Va.,</i>	9 P.
John Hays Allen, Jr.,	<i>Montoursville,</i>	36 S.
William Edgar Baker,	<i>Elizabeth, N. J.,</i>	N. 3d St.
Charles Heath Bannard,	<i>Salem, N. J.,</i>	12 M.
Edwin Clark Beers,	<i>Phillipsburg, N. J.,</i>	43 S.
Joseph Edward Bimm,	<i>Dayton, Ohio,</i>	12 McK.
James Wilson Bright,	<i>Lock Haven,</i>	23 S.
Asher Davidson Bubb,	<i>Antes Fort,</i>	31 S.
Jacob Pennypacker Buckwalter,	<i>Schwenksville,</i>	27 S.
Robert Williams Clark,†	<i>Chambersburg,</i>	57 S.
Harold Clemens,	<i>Easton,</i>	435 Northampton St.
John Wesley Coddington,	<i>Towanda,</i>	1 P.
Robert Gilson Craighead,†	<i>Dayton, Ohio,</i>	12 McK.
Thomas Roney Crowell,	<i>Odessa, Md.,</i>	232 Bushkill St.
George Palmer Curtis,	<i>Hackettstown, N. J.,</i>	132 N. 4th St.
Rufus Darr,	<i>Jacob's Creek,</i>	15 E.
David Duncan Davidson,	<i>Warren,</i>	12 B.
John Russell Dickson,	<i>Hunterstown,</i>	221 Northampton St.
Ferdinand Van Derveer Dilks,	<i>Somerville, N. J.,</i>	43 N. 4th St.
Casper Dull,†	<i>Harrisburg,</i>	6 McK.
Edward Mortimer Earle,	<i>Catasauqua,</i>	25 McK.
Mervin Johnson Eekels,	<i>New Kingston,</i>	221 Northampton St.
Charles Henry Edgar,	<i>Elizabeth, N. J.,</i>	58 S.
Albert Cecil Fairechild,	<i>Newark, N. J.,</i>	43 N. 4th St.
Edwin John Farber,	<i>Baltimore, Md.,</i>	18 E.
Thomas Chalmers Ferguson,	<i>Bordentown, N. J.,</i>	Cattell St.
Howard Mervin Fisher,	<i>Elkview,</i>	21 E.
Robins Fleming,†	<i>Readington, N. J.,</i>	825 Walnut St.
Frank M. Fuller,†	<i>Uniontown,</i>	221 Northampton St.
James Wesley Gilland,	<i>Shady Grove,</i>	27 S.
James Tracy Hale,	<i>Towanda,</i>	7 P.
Alexander Hamilton,	<i>Johnstown,</i>	30 S.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Russell B. Harrison,	<i>Indianapolis, Ind.,</i>	214 Bushkill St.
Abraham Hogeland,	<i>Doylestown,</i>	28 S.
Albert Harrison Hogeland,	<i>Davisville,</i>	28 S.
Andrew Porter Huey,	<i>Airy Dale,</i>	28 MeK.
Henry Clay Hunt, †	<i>Blairstown, N. J.,</i>	4 E.
Charles Paxton Knapp, †	<i>Wilkes Barre,</i>	244 Bushkill St.
John McFarland Leech,	<i>Saltsburg,</i>	31 S.
Charles Franklin Lewis,	<i>Knowlesville, N. Y.,</i>	26 N. 3d St.
Ellis Reuben Liechtenwallner,	<i>Allentown,</i>	McCartney St.
Edward Waek Long,	<i>Philadelphia,</i>	50 S.
Simon Cameron Long,	<i>Pine Grove,</i>	13 M.
Henry McCollum,	<i>Chester,</i>	15 B.
Henry Mahn McIntire,	<i>Easton,</i>	1136 Washington St.
Gilbert N. Marshall, Jr.,	<i>New York City,</i>	232 Bushkill St.
Samuel Albert Martin,	<i>Canonsburg,</i>	20 S.
Clifton Mayfield,	<i>Georgetown, D. C.,</i>	25 MeK.
Edward Mills, Jr.,	<i>Ulster,</i>	44 S.
Francis Hardy Moore,	<i>Philadelphia,</i>	202 Bushkill St.
Edward Francis Mordough,	<i>Brooklyn, N. Y.,</i>	3 E.
Frederick Gordon Newton,	<i>Towanda,</i>	16 S.
Barton Pardee,	<i>Hazleton,</i>	12 P.
James Lawson Patterson, †	<i>Savannah, Ohio,</i>	38 S.
William Hart Patterson,	<i>Columbia, S. C.,</i>	21 S.
Howard Terry Pershing,	<i>Pottsville,</i>	60 S.
George Henry Ruggles Plumb,	<i>Sugar Notch,</i>	21 MeK.
Arnold Gilmore Plumer,	<i>Franklin,</i>	12 E.
McCluney Radcliff,	<i>Lewistown,</i>	23 S.
Milo Pearson Reagle,	<i>Mount Bethel,</i>	14 S.
Stephen Marion Reynolds,	<i>Factoryville,</i>	19 S.
Harry Vernon Rice,	<i>Kalamazoo, Mich.,</i>	123 McCartney St.
Wallace Berkley Riegner,	<i>Chambersburg,</i>	57 S.
James Boyd Risk,	<i>Philadelphia,</i>	7 MeK.
Blair Webster Roller,	<i>Williamsburg,</i>	—
Jacob Washington Schwartz,	<i>Tamaqua,</i>	15 MeK.
Harry Omar Scott,	<i>Confluence,</i>	15 E.
Herbert Francis Seip, †	<i>Easton,</i>	Centre Square.
Clifford McCalla Sherron, †	<i>Salem, N. J.,</i>	10 M.
John Cresswell Shumaker,	<i>Chambersburg,</i>	14 P.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Benjamin Silver,	<i>Glenville, Md.,</i>	21 N.
John Tinney Skeen,†	<i>Port Deposit, Md.,</i>	200 McCartney St.
Clinton Creveling Snyder,	<i>Espy,</i>	43 N. 4th St.
James Todd, Jr.,	<i>Indiana,</i>	23 McK.
William Garvin Trunkley,	<i>Franklin,</i>	10 P.
Frank Newcomb Turner,	<i>Port Carbon,</i>	18 McK.
Jacob Peter Uhler,	<i>Stockertown,</i>	Northampton St.
Richard Marshall Van Horn,	<i>Hackettstown, N. J.,</i>	4 McK.
Lewis Rhoads Walters,	<i>Phoenixville,</i>	13 M.
Artemus Crawford Ward,	<i>Le Roy, N. Y.,</i>	30 S.
George Miles Wells,	<i>Easton,</i>	11 McK.
Martin Jacob Youngblood,	<i>Hackettstown, N. J.,</i>	Bushkill St.
Charles McGill Zahniser,	<i>Sharon,</i>	243 Bushkill St.

SOPHOMORES.....86.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
James Arnold Aiman,	<i>Flourtown,</i>	16 E.
William Atkinson Alderson,	<i>St. Charles, Mo.,</i>	19 E.
Edward Damon Allen,	<i>Franklin,</i>	6 E.
Horace Beemer Ayres,	<i>Allamuchy, N. J.,</i>	7 E.
Park Edwards Bell,	<i>Pittsburg,</i>	214 Bushkill St.
Hervey Winthrop Beymer,	<i>Pittsburg,</i>	221 Northampton St.
Frederick Miller Bouton,†	<i>Scranton,</i>	7 E.
Walter James Bradshaw,	<i>Indianapolis, Ind.,</i>	136 N. 2d St.
Andrew Scott Brown,	<i>Erie,</i>	125 N. 3d St.
John Charles Churchill, Jr.,	<i>Oswego, N. Y.,</i>	5 E.
Thomas Culbertson Clark,	<i>Martin's Ferry, O.,</i>	202 Bushkill St.
Alexander Cathcart Coble,	<i>Carlisle,</i>	221 Northampton St.
William Gates Coffin,	<i>Deposit, N. Y.,</i>	16 S.
William Alexander Cox, Jr.,	<i>Shippensburg,</i>	323 Spring Garden St.
John Davidson Dorris,	<i>Huntingdon,</i>	17 McK.
John Jacoby Dungan,	<i>Flourtown,</i>	8 E.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Joseph Edward Durham,	<i>Dewart,</i>	8 P.
John Robert Eaton,	<i>Archbald,</i>	49 S.
Alexander Elliott, Jr.,	<i>Dover, N. J.,</i>	22 E.
John Seneca Ely,	<i>Doylestown,</i>	2 E.
John Kennedy Ewing, Jr.,	<i>Uniontown,</i>	14 E.
Benj. Franklin Fackenthall, Jr.,†	<i>Durham,</i>	Durham.
Wallace Henderson Falls,	<i>New Castle,</i>	221 Northampton St.
Charles Forney,	<i>Lebanon,</i>	5 E.
Edward Fox,	<i>Easton,</i>	1 E.
Stewart Fullerton,	<i>Philadelphia,</i>	16 E.
John Gilmore,	<i>Uniontown,</i>	14 E.
Edwin Schere Glanz,	<i>Easton,</i>	South 3d St.
John Oscar Glase,	<i>Oley,</i>	10 E.
James Johnson Grant,	<i>Navarre, Ohio,</i>	38 S.
Charles Cooper Griffith,	<i>Brady,</i>	18 E.
Jacob Koch Griffith,	<i>Pittston,</i>	202 Cattell St.
Robert Hugh Hamill,	<i>Boalsburg,</i>	12 E.
Naudain Hamilton,	<i>Harrisburg,</i>	300 Bushkill St.
Edgar Hart,	<i>Pennington, N. J.,</i>	232 Bushkill St.
Samuel S. Hartranft,	<i>Harrisburg,</i>	11 Centre Square.
William Justice Hayes,	<i>Erie,</i>	13 E.
John Clemson Hazard,	<i>Mauch Chunk,</i>	232 Bushkill St.
Charles Heebner,	<i>Port Carbon,</i>	8 P.
John Herron, Jr.,	<i>Dehra, India,</i>	113 McCartney St.
Charles Merrill Hileman,	<i>Pittston,</i>	202 Cattell St.
Lewis Ahrens Hoffman,	<i>Reading,</i>	51 S.
James Renwick Hogg,	<i>Philadelphia,</i>	2 McK.
Edward Everett Hoyt,	<i>Kingston,</i>	16 N. 3d St.
Torrence Huffman,†	<i>Dayton, Ohio,</i>	22 E.
James D. Hunter,†	<i>Savannah, Ohio,</i>	202 Cattell St.
Randolph Clark Hyatt,	<i>Georgetown, D. C.,</i>	22 E.
Charles Collingwood Jennings, Jr.,	<i>Easton,</i>	39 South 2d St.
Thomas Glover Johns,	<i>St. Charles, Mo.,</i>	21 E.
Jacob Miley Jones,	<i>Harrisburg,</i>	464 Northampton St.
Richard Armstrong Kennedy,†	<i>Tarentum,</i>	123 North 3d St.
William Scott Kerr,	<i>Saltsburg,</i>	23 E.
Frank Delmar Kinnear,	<i>Franklin,</i>	8 E.
Harry Knecht,	<i>Easton,</i>	25 South 5th St.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Edward West Lyon,	<i>Sligo,</i>	129 Cattell St.
Frank Hastings McArthur,	<i>Sharon,</i>	359 Bushkill St.
William Quincy McGee,	<i>Cairo, Illinois,</i>	113 McCartney St.
Herbert McIntosh, †	<i>Doylestown,</i>	2 E.
Edward Arthur McLaury,	<i>Monticello, N. Y.,</i>	18 B.
David Adrian McLeod,	<i>High Bridge, N. Y.,</i>	3 E.
Charles Archy McSparren,	<i>Erie,</i>	13 E.
Curtis Q. McWilliams,	<i>Shamokin,</i>	237 Bushkill St.
James Cameron Mackenzie,	<i>Wilkes Barre,</i>	3 McK.
Charles Dinsmore Marvin,	<i>Erie,</i>	125 North 3d St.
Robert James Mason,	<i>Mercer,</i>	12 S.
William Newton Mateer,	<i>Shippensburg,</i>	323 Spring Garden St.
Guyon Miller,	<i>Coatesville,</i>	50 S.
Henry Millholland,	<i>Reading,</i>	Lafayette Park.
Joshua Lewis Miner,	<i>Wilkes Barre,</i>	3 McK.
Charles Newton,	<i>Nicholson,</i>	12 S.
Aaron Willard Nicholas,	<i>Mendham, N. J.,</i>	11 E.
Charles Thomas Officer,	<i>Council Bluffs, Iowa,</i>	216 McCartney St.
Cyrus Simpson Pershing,	<i>Pittsburg,</i>	60 S.
George Washington Phillips,	<i>Hilde Park,</i>	12 S.
Lewis John Rader,	<i>Easton,</i>	133 South 6th St.
James Ramsay,	<i>Delaware Station,</i>	1 P.
Alexander Burton Randall,	<i>Annapolis, Md.,</i>	6 P.
Charles Michler Ray,	<i>Washington, D. C.,</i>	245 Bushkill St.
James Mitchell Reese,	<i>Phillipsburg, N. J.,</i>	1 P.
Charles Bement Riggs,	<i>Elmira, N. Y.,</i>	11 E.
Alexander H. Roberts, †	<i>Harrisburg,</i>	17 E.
George Redsecker Ross,	<i>Lebanon,</i>	464 Northampton St.
George Washington Sandt,	<i>Easton,</i>	Cattell St.
Horace Daniel Sassaman,	<i>Erwinna,</i>	36 South 4th St.
Arch Tanner Scofield,	<i>Warren,</i>	8 M.
Joshua Rogers Serfass,	<i>Easton,</i>	453 Northampton St.
Edward Richard Shaw,	<i>Bellport, L. I.,</i>	19 E.
William Lesley Sheaffer,	<i>Pottsville,</i>	59 S.
George Vernon Sheffield,	<i>Newburg, N. Y.,</i>	21 S.
John Franklin Sheppard,	<i>Bridgeton, N. J.,</i>	210 McCartney St.
John Maxwell Sherrerd,	<i>Belvidere, N. J.,</i>	113 Northampton St.
Harry Addis Smith,	<i>Richboro,</i>	6 E.

FRESHMEN-CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Henry Snyder,	<i>Easton,</i>	44 South 7th St.
Samuel Alexander Soxman,	<i>Congruity,</i>	20 E.
Alexander Ramsey Speel,	<i>St. Paul, Minn.,</i>	300 Bushkill St.
John Stengelin, Jr.,	<i>Easton,</i>	125 South 3d St.
Russell Chidsey Stewart,	<i>Easton,</i>	18 B.
George Washington Stout, Jr.,	<i>Easton,</i>	159 Ferry St.
William Broadwell Sullivan,	<i>Dayton, Ohio,</i>	339 Bushkill St.
Kuzuma Takasu,	<i>Tokio, Japan,</i>	43 North 4th St.
John Charles Temple, †	<i>Dayton, Ohio,</i>	123 N. 3d St.
Uji Taka Toda,	<i>Tokio, Japan,</i>	26 North 3d St.
Mareus Calvin Turner,	<i>Batavia, N. Y.,</i>	McCartney St.
John Van Meter,	<i>Canonsburg,</i>	17 B.
Franeis Eugene Wade,	<i>Hackettstown, N. J.</i>	43 N. 4th St.
Edwin Teel Walker,	<i>Strasburg,</i>	20 E.
Alexander Bowman Weaver,	<i>Clearfield,</i>	Cattell St.
Harry Wallace Webber,	<i>Altoona,</i>	19 McK.
Barge Christopher Weidman,	<i>Lebanon,</i>	206 Spring Garden St.
Bard Wells,	<i>Pottsville,</i>	11 McK.
William Dana Wheeler,	<i>Oswego, N. Y.,</i>	202 Bushkill St.
John Fremont Williamson,	<i>Sidney, N. J.,</i>	18 B.
Oliver Russell Wood,	<i>Martin's Ferry, O.,</i>	202 Bushkill St.
George Franklin Pierce Young,	<i>Klecknersville,</i>	56 S.
Thomas Oscar Young,	<i>Klecknersville,</i>	56 S.

FRESHMEN.....115.

SUMMARY.

Resident Graduates.....	4
Undergraduates, { Seniors.....	35
Juniors.....	79
Sophomores.....	86
Freshmen.....	115
Total.....	319

NEW YORK.....	17	OHIO.....	13	MISSOURI.....	4
NEW JERSEY.....	33	WEST VIRGINIA.....	2	MICHIGAN.....	1
PENNSYLVANIA.....	217	SOUTH CAROLINA.....	1	MINNESOTA.....	1
DELAWARE.....	1	INDIANA.....	4	BRAZIL.....	1
MARYLAND.....	9	ILLINOIS.....	2	JAPAN.....	2
DIST. OF COLUMBIA..	3	IOWA.....	1	INDIA.....	1
VIRGINIA.....	1				

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This Department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to \$200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 MR. PARDEE made another donation of \$200,000, for the erection of a building designed for the use of the Scientific Department.

In 1872 this donation was increased to \$250,000, and on the 21st of October, 1873, the building, with its scientific equipment, was formally handed over to the Trustees, in the presence of His Excellency, Governor Hartranft; the State Superintendent of Education, Hon. J. P. Wickersham, LL.D.; the Synod of Philadelphia, and a great assemblage.* It consists of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front, in a straight line, is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sandstone. It is heated throughout by steam and lighted by gas. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe as well as in this country, were carefully studied, and

* The address delivered at the dedication by Prof. Raymond, with a report of other speeches delivered during the day, and a general account of the proceedings, may be had on application to any member of the Faculty.

liberal provision has been made in all the departments of instruction for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The Scientific Department of the College now includes,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, has been so adapted to the studies of the new course as to give, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL. This course is designed to give professional preparation for the location, construction and superintendence of Railways, Canals and other public works; Chemical works and Pneumatic works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY. This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY. This course includes text-book study, lectures, and laboratory practice, every facility for which is found in the Laboratories of PARDEE HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries.

There will also be afforded an opportunity for special study of TRADE and COMMERCE; of MODERN LANGUAGES and PHILOLOGY; of NATURAL HISTORY; of ARCHITECTURE; and of the HISTORY and INSTITUTIONS of our own country.

The Board intend that the whole Scientific Course shall have the Christian character which they have endeavored to impress upon the studies of the College, and that Science shall be here so taught as to become the handmaid of Religion. In addition to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Course, special attention will be given in the various Departments of Study to the harmony of Science with Revealed Religion.

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through simple equations; Geometry, two books of Loomis's; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the *Bucolics*, and six books of the *Æneid*); Cicero, seven orations; Harkness' Latin Prose Composition (Part I.); Xenophon's *Anabasis*; * the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 §§); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Technical Courses.—1. *Engineering, Civil, Topographical and Mechanical.*
 2. *Mining Engineering and Metallurgy.*
 3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Graduates of Colleges and others who are prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as special Students. For the WORKING SECTIONS, see pages 30 and 31.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismissal in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

* The Greek Reader will be accepted for the *Anabasis*.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Tertullian. } Elective.	English Composition.
Livy. }	Algebra, Loomis's, (continued.)
Latin Composition.	Old Testament, in English.
Eusebius. }	Coleman's Biblical Geography.
Xenophon, Cyropædia. }	Lectures on Health.
Classical Geography.	

SECOND TERM.

Cyprian. } Elective.	Greek Antiquities.
Livy. }	Geometry, Loomis's, (continued.)
Latin Composition.	English Composition.
Eusebius. }	Old Testament, in English.
Herodotus. }	Coleman's Biblical Geography.

THIRD TERM.

Bible in Latin. } Elective.	English Composition.
Horace. }	Algebra, (completed.)
Roman Antiquities.	Solid Geometry.
Greek Testament—Mark.	New Testament, in English.
Greek Composition.	Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Latin Hymns. } Elective.	Greek Testament—Acts.
Horace. }	Trigonometry, Plane and Spherical.
Justin Martyr. }	Mensuration, Loomis's.
Xenophon, Memorabilia. }	Study of Words, Trench.
Greek Composition.	

SECOND TERM.

Augustine. } Elective.	Rhetoric.
Cicero, de Oratore. }	Archæology of Greek Literature and Art.
Athenagoras. }	Conic Sections, Coffin's.
Homer, Iliad. }	Greek Testament—Acts.

THIRD TERM.

Greek Hymns. } Elective.	French.
Homer, Iliad. }	Analytical Geometry.
Greek Testament—Acts.	Differential and Integral Calculus.
Archæology of Roman Literature and Art.	Navigation and Surveying, Loomis's.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Descriptive Mechanics.		Cicero, Tusculan Disputations. }	Elective.
Theoretical Mechanics. }	Elective.	Lactantius.	
Thucydides.		German.	
Josephus.		Greek Testament—Romans.	
Chrysostom.		Declamations, Themes, and written De-	
Demosthenes. }	Elective.	bates.	
History of Greece.			

SECOND TERM.

Tacitus. }	Elective.	Physics, (begun.)	
Orosius.		Constitution of the United States.	
Anglo-Saxon, March's Grammar and Reader.		Political Philosophy.	
English, Milton.		Greek Testament—Romans.	
Fowler's English Language.		Declamations, Themes, and written De-	
		bates.	

THIRD TERM.

Physics, (completed.)		English, Shakespeare.	
Chemistry, with Laboratory practice.		Fowler's English Language.	
Greek Tragedies. }	Elective.	Greek Testament—Romans.	
Septuagint.		Declamations, Themes, and Extemporaneous Speaking.	
Anglo-Saxon, (continued.)			

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)		Juvenal and Persius. }	Elective.
Astronomy, (begun.)		Boethius.	
Botany. Zoölogy.		English Literature.	
Anatomy and Physiology.		Confession of Faith.	

SECOND TERM.

Mental Philosophy, (completed.)		Mineralogy.	
Political Economy.		Plato. Modern Languages. }	Elective.
Rhetoric. Logic.		Blackstone.	
Moral Philosophy.		Chemistry.	
Geology, (commenced.)		Astronomy, (completed.)	
Evidences of Christianity.		Hebrew, Green's Grammar.	

THIRD TERM.

Greek Harmony of the Gospels.		History.	
Archæology of Literature. }	Elective.	French. German.	Elective.
Philosophy of Mathematics.		Chemistry.	
Comparative Philology.		Blackstone.	
Geology, (completed.)		Hebrew, Chrestomathy.	
Architecture.		Butler's Analogy.	

Throughout the Year—Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)	Chemistry, with Laboratory Practice.
Stereotomy, Elementary Drawing.	Old Testament.
French.	Coleman's Biblical Geography.
English, March's Method.	Lectures on Health.
English Composition.	

SECOND TERM.

Geometry, Loomis's, (continued.)	Chemistry, with Laboratory Practice.
Drawing, Plane Problems.	English Composition.
French.	Old Testament.
German.	Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)	Mineralogy.
Solid Geometry.	English Composition.
Geometrical Drawing.	New Testament.
Modern Languages.	Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from French and German.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.	Chemistry, (optional.)
Mensuration, Loomis's.	Study of Words, Trench.
Geometrical Drawing.	English, Bunyan.
French.	Acts of the Apostles.
German.	

SECOND TERM.

Conic Sections, Coffin's.	Rhetoric.
Geometrical and Topographical Drawing.	English, Spenser.
German.	Chemistry, (optional.)
Botany. Zoölogy.	Acts of the Apostles.

THIRD TERM.

Analytical Geometry.	English, Chaucer.
Differential and Integral Calculus.	Chemistry, (optional.)
Descriptive Geometry.	Botany. Zoölogy.
Navigation and Surveying, Loomis's.	Acts of the Apostles.
Modern Languages.	

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.	Zoölogy.
French.	Botany.
English, Bacon.	New Testament Epistles.
Chemistry.	Declamations, Themes, and written De-
Descriptive Geometry. } Elective.	bates.

SECOND TERM.

Physics, (begun.)	English, Milton.
Shades and Shadows, (optional.)	Constitution of the United States.
Colored Topography, (optional.)	Political Philosophy.
Zoölogy.	New Testament Epistles.
Botany.	Declamations, Themes, and written De-
Anglo-Saxon, March's Grammar and	bates.
Reader.	

THIRD TERM.

Physics, (completed.)	English, Shakespeare.
German.	Modern Languages.
Anglo-Saxon, (continued.)	New Testament Epistles.
Linear Perspective, (optional.)	Declamations, Themes, and Extempora-
	neous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)	Modern Literature.
Astronomy, (begun.)	Anatomy and Physiology.
English Literature.	Confession of Faith.
Modern Languages.	

SECOND TERM.

Mental Philosophy, (completed.)	Geology. Mineralogy.
Political Economy.	Modern Languages.
Rhetoric. Logic.	Astronomy, (completed.) } Elective.
Moral Philosophy.	Chemistry. Blackstone. }
Evidences of Christianity.	

THIRD TERM.

Geology.	Comparative Philology.
Philosophy of Mathematics. } Elective.	Chemistry. Blackstone. } Elective.
Archæology of Literature. }	Modern Languages. }
History.	Butler's Analogy.
Architecture.	

Throughout the Year.—Themes and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's (continued.)	French.
Trigonometry, Loomis's.	Coleman's Biblical Geography.
Stereotomy, Elementary Drawing.	Old Testament, in English.
Chemistry, with Laboratory Practice.	Lectures on Health.
English.	

SECOND TERM.

Mensuration, Loomis's, (commenced.)	Chemistry, with Laboratory Practice.
Surveying, Loomis's.	German.
Problems in Division of Land.	Coleman's Biblical Geography.
Drawing, Plane Problems.	Old Testament.

THIRD TERM.

Algebra, (completed.)	French.
Geometry, (completed.)	German.
Surveying, Field Work.	Coleman's Biblical Geography.
Geometrical Drawing.	New Testament.

Throughout the Year.—Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Mensuration, (completed.)	Mineralogy.
Surveying, Field Work.	French. German.
Geometrical Drawing.	English. Trench on Words.
Chemistry, (optional.)	Acts of the Apostles.

SECOND TERM.

Conic Sections.	Mineralogy.
Topographical Drawing.	French. German.
Botany. Zoölogy.	English, Spenser, (optional.)
Chemistry, (optional.)	Acts of the Apostles.

THIRD TERM.

Analytical Geometry.	Determinative Mineralogy.
Differential and Integral Calculus.	French. German.
Descriptive Geometry.	English, Chaucer, (optional.)
Botany. Zoölogy.	Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.	Zoölogy. Botany.
Descriptive Geometry, (General Orthographic Projections.)	Modern Languages.
Surveying, Field Work, Adjustment of Instruments.	New Testament Epistles.
	Declamations and Themes.

SECOND TERM.

Physics, (begun.)	Geodesy.
Calculus, (continued.)	Zoölogy. Botany.
Shades and Shadows.	Modern Languages.
Colored Topography.	New Testament Epistles.
Hydrographical Surveying.	Declamations and Themes.

THIRD TERM.

Physics, (completed.)	Map of Topographical Survey.
Analytical and Applied Mechanics.	Modern Languages.
Linear Perspective.	New Testament Epistles.
Topographical Surveying.	Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Road Engineering — Surveys and Estimates.	Astronomy, (optional.)
Plans, Profiles and Sections of Road Surveys.	Mental Philosophy, (optional.)
General Theory of Machines.	Modern Languages.
Machine Drawing.	Anatomy and Physiology.
	Confession of Faith.

SECOND TERM.

Machinery and Motors.	Political Economy.
Stone Cutting.	Astronomy, (optional.)
Stability of Structures.	Geology.
Supply and Distribution of Water.	Physical Geography.
Modern Languages.	Evidences of Christianity.
Mental Philosophy, (optional.)	

THIRD TERM.

Designs for, and Reviews of Engineering Works.	English Literature, (optional.) Modern Languages.
Bridge Drawing.	Comparative Philology, (optional.)
Stability of Structures.	History, (optional.)
Philosophy of Mathematics, (optional.)	Evidences of Christianity.
Geology.	Graduation Theses.
Natural History, (optional.)	

Throughout the Year.—Themes and Speaking.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are the same in this as in the CIVIL ENGINEERING Course, except that Qualitative Analysis in the Freshman and the Sophomore year, is required in place of certain engineering work.

JUNIOR YEAR.

FIRST TERM.

Mechanics.	Practice with the Blow-pipe.
Quantitative Analysis.	Modern Languages.
Lithology.	New Testament Epistles.
Surveying.	Declamations and Themes.

SECOND TERM.

Physics.	Modern Languages.
Colored Topography.	English, Anglo-Saxon, (optional.)
Maps of Surveys.	New Testament Epistles.
Quantitative Analysis.	Declamations and Themes.
Practice in Lithology.	

THIRD TERM.

Analytical and Applied Mechanics.	Modern Languages.
Topographical Surveying.	New Testament Epistles.
Map of Topographical Survey.	Declamations, Themes, and Extemporaneous Speaking.
Quantitative Analysis.	

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Metallurgy.
Mining.

General Theory of Machines.
Modern Languages.
Confession of Faith.

SECOND TERM.

Quantitative Analysis.
Assaying.
Metallurgy.
Strength of Materials.
General Theory of Machines.
Machine Drawing.

Political Economy.
Modern Languages.
Geology.
Mining.
Evidences of Christianity.

THIRD TERM.

Quantitative Analysis.
Metallurgy.
Mine Surveying.
Ore Deposits.
Economic Geology and Paleontology.

Designs for, and Reviews of Special Metallurgical and Mining Operations.
Modern Languages.
Evidences of Christianity.
Graduation Theses.

Throughout the Year.—Themes and Speaking.

CHEMICAL COURSE.

The FRESHMAN and SOPHOMORE years are the same in this as in the Course of MINING ENGINEERING AND METALLURGY.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Quantitative Analysis.
Chemical Technology.
Lithology.
Zoölogy. Botany.

Practice with the Blow-Pipe.
French. } Elective.
English. }
Drawing. }
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Physics. Spectrum Analysis.
Quantitative Analysis.
Chemical Technology.
Practice in Lithology.
New Testament Epistles.

German. } Elective.
English. }
Anglo-Saxon. }
Declamations, Themes, and Extemporaneous Speaking.

THIRD TERM.

Analytical and Applied Mechanics.	English,	} Elective.
Physics.	French.	
Chemical Technology.	German.	
Quantitative Analysis.	New Testament Epistles.	
Physical Geography.	Declamations, Themes, and Extemporaneous Speaking.	

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.	General Theory of Machines.
Chemical Technology.	Physiological Chemistry.
Metallurgy.	Toxicology.
Volumetric Analysis.	Modern Languages.
Anatomy and Physiology.	Confession of Faith.

SECOND TERM.

Quantitative Analysis.	Political Economy.
Chemical Technology.	Modern Languages.
Metallurgy.	Geology.
Strength of Materials.	Agricultural Chemistry.
General Theory of Machines.	Evidences of Christianity.
Machine Drawing.	

THIRD TERM.

Quantitative Analysis.	Economic Geology and Paleontology.
Gas Analysis.	The Steam Engine.
Metallurgy.	Modern Languages.
Chemical Technology.	Graduation Theses.
	Evidences of Christianity.

Throughout the Year.—Themes and Speaking.

POST-GRADUATE COURSES.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor in that Department, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or of Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS or MINING ENGINEERS without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General and Analytical Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass the Examination required for the General Scientific Course. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytical Chemistry.

I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.

Reconnoissance.

Running Preliminary lines.

Maps and Memoirs of same.

Final Location of Road; Grades and Curves.

Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text-book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them, with drafts, are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the First Collegiate Term, Thursday, September 3d, 1874.

II. MINING ENGINEERING.

THE SENIOR CLASS of the Engineering Course study and describe certain of the mines near Easton. The work includes—

Access, Roads, Canals.

Exploitation.

Shafts.

Supports.

Tunnels.

Embankments.

Drainings.

Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved, are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 7th, 1875.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and chemical properties of Iron.

Alloys of Iron.

Direct Extraction of Malleable Iron from Ores.

Blast Furnaces.

Chemical Reactions in the Blast Furnace.

Blowing Engines, Regulators, Hot Blast.

On the best Form of Blast Furnace and Details in making the same.

Theory and Practice of Fluxes.

Charges and Yields of Blast Furnaces.

Bloomeries and Rolling Mills.

Puddling and Reheating.

Steel. Production of Steel by the addition of Carbon to Malleable Iron.

Production of Steel by partial Decarburization of Cast Iron.

Production of Steel by Fusion of Pig Iron with Malleable Iron.

Casting Steel.

Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a course on Lead, Silver, Gold, and other metals.

The course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

The Laboratories in Pardee Hall are fitted up with all the modern appliances for the use of Students. The COMMON COURSE is—

General Chemistry.

Qualitative Analysis.

Quantitative Analysis.

Spectrum Analysis.

Volumetric Analysis.

Organic Analysis.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, September 3d, 1874, and on Thursday, January 7th, 1875.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

For the course in Christian Latin and Greek, see page 35.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and *Alexander's Moral Science* are used as text-books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	<i>First Term.</i>	History of Rome.
	<i>Second Term.</i>	History of Rome.
JUNIOR YEAR.	<i>First Term.</i>	History of Greece.
	<i>Second Term.</i>	Constitution and Constitutional History of the United States.
SENIOR YEAR.		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
	<i>First Term.</i>	History of Literature.
	<i>Second Term.</i>	Political Economy. Common Law.
	<i>Third Term.</i>	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text-books, weekly written essays are required, and declamations in class or before the College. **EXTEMPORANEOUS SPEAKING** is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

Professor Barlow gives a comprehensive course of lectures on Elocution to the Freshman Class, which is followed by systematic instruction and training extending through the whole college course. The students of all the classes are carefully prepared by private rehearsals for their weekly speaking.

LANGUAGES.

Latin and Greek.—During the **FRESHMAN** and **SOPHOMORE** years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	<i>First Term.</i>	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	<i>Second Term.</i>	Etymology of the Verb.
	<i>Third Term.</i>	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	<i>First Term.</i>	Syntax, (begun.)
	<i>Second Term.</i>	Syntax, (modes.) Prosody, (Greek.)
	<i>Third Term.</i>	Historical Etymology.

In the **JUNIOR** and **SENIOR** years the reading is also connected with the application of the principles of Comparative Philology to the text, and with

the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Chrysostom, Cicero, Boethius, and Plato, in these relations.

Course of Christian Latin and Greek.—The Trustees have been enabled by the munificence of Mr. Benjamin Douglass to establish a course of study in the Latin and Greek of Christian authors. Text-books and teaching are provided in both languages co-extensive with the other Classical Course, so that a student may devote the usual time to the philological study of Greek and Latin, without using any of the heathen writers as text-books. About \$1000 has been expended for the increase of the Library in this department during the past year, and a series of Text-books is in course of publication.

In 1872-3, the following prizes were given for proficiency in this course in the Class of 1876; one of \$100 to W. C. Stull; two of \$50 to A. Heebner and J. T. Lloyd; two of \$25 to J. M. McCahan and O. H. Melcher.

In 1873-4, prizes were given in the Sophomore class to W. C. Stull \$100; to J. M. McCahan, A. Heebner and O. H. Melcher \$50 each; in the Freshman class to H. McCollum \$100; to F. N. Turner and E. W. Long \$50 each; to J. T. Skeen and E. F. Mordough \$25 each.

In 1874-5, similar prizes are offered to the Junior, Sophomore and Freshman Classes.

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek, Crosby's Grammar for drill, Hadley's Grammar and Goodwin's Greek Moods and Tenses for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's Unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL.D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1873 were examined on Goldsmith. The prize was awarded to J. G. Williamson, Jr., with honorable mention of S. G. Barnes and W. C. Anderson. The Class of 1874 were examined on Washington Irving. The prize was awarded to John R. Williams. The Class of 1875 will be examined on Longfellow.

THE HARVEY PRIZE.—An English prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A.M., of the Class of 1871.

In the Class of 1873 it was awarded to S. G. Barnes, in that of 1874 to J. R. Williams, and in that of 1875 to H. H. Jackson.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1872, offered by the London Society of that name, for the best examination in English before Chaucer, was won by S. G. Barnes of 1873, for the best examination in Beowulf; for 1873 by J. R. Williams of 1874, for the best examination in Caedmon; and for 1874 by H. H. Jackson of 1875, for the best examination in Alfred's Meters.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows :

FRESHMAN YEAR.	<i>First Term.</i>	Algebra, (continued.)	
	<i>Second Term.</i>	Geometry, (continued.)	
	<i>Third Term.</i>	Algebra and Geometry, (completed.)	
SOPHOMORE YEAR.	<i>First Term.</i>	Trigonometry and Mensuration.	
	<i>Second Term.</i>	Conic Sections.	
	<i>Third Term.</i>	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.	
JUNIOR YEAR.	<i>First Term.</i>	Mechanics.	} See Physics, p. 38.
	<i>Second Term.</i>	Physics, (begun.)	
	<i>Third Term.</i>	Physics, (ended)	
SENIOR YEAR.	<i>First Term.</i>	Astronomy, (commenced.)	
	<i>Second Term.</i>	Astronomy, (completed.)	

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses, see pages 25 to 29.

Text-books are used as mentioned on pages 21, 22, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In astronomy they are taught the working of the Observatory.

PRIZES.—Two prizes were founded in this department in 1868. The first prize consists of thirty dollars, and is awarded to the Student in the Senior Class who has made the highest attainment in Astronomical Science. In 1870 it was awarded to R. W. D. Bryan, in 1871 to James C. Crawford, in 1872 to Jefferson Snyder, in 1873 to T. C. Galbreath, in 1874 divided equally between Charles J. Nourse, and S. L. Stiver. The second prize consists of twenty dollars, and is awarded to a member of the Junior Class for proficiency in Mathematical studies. It was awarded in 1870 to A. Swartz, in 1871 to James I. Good, in 1872 to Nathaniel Taylor. An equal award of \$20 to each was made in 1873 to S. M. Riley, of the Scientific department, and S. L. Stiver, of the Classical department, in 1874 to Henry S. Carey, of the Classical department, and Arthur M. McComb, of the Scientific department; and hereafter a Junior prize of \$20 will be given in each department.

PHYSICS.

The studies of this department in the Classical and the General Scientific Courses occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved by new instruments devised or selected by Professor Moore.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 26—29.

In the departments of Physics, Mathematics, Astronomy, and Chemistry, instruction has been aided by the preparation of a series of eight hundred wall-charts, mounted on cloth, and executed by Gustave Garnier; many of these diagrams embrace illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text-book. In connection with these lectures each student is required to perform for himself a course of illustrative experiments in the Laboratory, under the direction of the Professor; and they are invited to pursue Analytical Chemistry through the rest of the course. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. One whole story of Pardee Hall is devoted to Chemical Laboratories and Lecture-rooms, and every aid known to modern educators is there offered to each student in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course, see page 31.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	<i>Third Term.</i>	Mineralogy.
SOPHOMORE YEAR.	<i>Second and Third Terms.</i>	Botany. Zoölogy.
JUNIOR YEAR.	<i>First and Second Terms.</i>	Zoölogy. Botany.
SENIOR YEAR.	<i>First Term.</i>	Botany. Zoölogy.
	<i>Second Term.</i>	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures.

In MINERALOGY the classes have the advantages of the instructions of Professor Prime, and of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 27—28.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	<i>First Term.</i>	Lectures on Health.
JUNIOR YEAR.	<i>First Term.</i>	General Principles of Physiology.
SENIOR YEAR.	<i>First Term.</i>	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. It is intended that physical training, under the immediate supervision of the Professor of Physical Culture, shall be a part of the regular College Course as soon as funds may be secured for a Gymnasium.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on the Sabbath. A daily social prayer-meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical department, the degree of BACHELOR OF PHILOSOPHY on graduates of the General Scientific Course.

Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of ANALYTICAL CHEMIST.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before Commencement. The fee, including diploma, is \$6. From those who enter College after January 1st, 1875, this fee will not be required, as it is covered by the matriculation fee, as stated on page 42.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

LIBRARIES AND READING-ROOM.

The College Library is open Thursday, Friday and Saturday, at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; and of the Brainerd Society, at its regular meetings.

The EASTONIAN HALL, in the east wing of East College, is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours.

TERMS AND VACATIONS.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

SOCIETIES.

There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have well-furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY, as a Society of Inquiry, meets on the first Wednesday of each month, in the interest of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The NATURAL HISTORY SOCIETY meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The ALUMNI SOCIETY is composed of Graduates of the College and such

of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday afternoon preceeding commencement-day.

EXPENSES, &c.

Tuition (to those not on scholarships) in the Classical or

General Scientific Course.....	\$15.00	a term.
Tuition in the Technical Courses, or Working Sections.....	25.00	"
General expense.....	5.00	"
Library and Reading Room.....	2.00	"

The annual College charges are therefore for those who pay tuition in full, sixty-six dollars for the Classical or General Scientific Course, and ninety-six dollars in the Technical Courses. Beginning January 1, 1875, and thereafter, in place of the fees now paid at the time of matriculation and of receiving the degree at graduation and the Master's degree, amounting to \$15, each student will pay \$5 when he is registered on entering college, and \$10 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made entering the laboratories. Members of the Classical Department are admitted to all the privileges of Pardee Hall while studying General Chemistry, and, for the present, without charge for the use of the laboratory and the aid of the Professor in attendance. Each will, of course, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical Courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs the past year was from \$2.65 to \$4.50 per week. Board, including furnished room in private families, is from \$5 to \$7 per week. Unfurnished rooms in the College buildings may be had at a cost of from five to fourteen dollars a term (average \$8.) Unfurnished rooms adjacent to the College premises can be rented for from ten to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance. The Treasurer also, on behalf of the Committee of Students, collects with the College bills, at the beginning of the first term \$5, and of the second term \$7, for fuel. The unexpended balance is refunded at the close of the year. Last year the average cost for fuel to those in double rooms was \$6.75, to those in single rooms \$10.08. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with comfortable economy, the total annual expenses—exclusive of tuition and clothing—need not exceed \$275; and it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission.

RECENT ADDITIONS,

The Jern-Kontoret of Sweden has lately presented a complete set of iron, copper, nickel and lead ores, together with a full suite of the irons, steels, slags, mattes and metals made from them.

Garnets, petrifications, and Indian curiosities have been received from the Rev. John Menaul, of the Class of 1865, of Fort Wingate, Arizona. A Golden Eagle was presented by Samuel Hayden, of Easton.

Large additions have been made to the Herbarium.

Mr. Benjamin Douglass has made a donation for the increase of the Library in the department of Christian Greek and Latin, from which about one thousand dollars have been expended during the last year in the purchase of the best working editions of such authors and apparatus of

investigation and study. The Library has also received gifts from Hon. E. W. Leavenworth, Henry J. Williams, General Robert Patterson, Prof. William Harkness, M.D., M. Mylert, Dr. C. W. Holmes, The Smithsonian Institution, and the U. S. Bureau of Education.

A fund was instituted by the Class of 1871 for the yearly purchase of the new issues of Early English texts.

BEQUESTS AND DEVISES.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, and witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of—— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the professors in said college.

I give and bequeath a certain lot, situated, &c., to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college, according to the provisions of its charter.